## COUNTY COUNCIL

OF

## HARFORD COUNTY, MARYLAND

	BILL NO.	83-23 AS AM	IENDED	
	ıncil President	Hardwicke	at the	
Introduced by	quest of the Co	unty Execut	ive	
Legislative Day No. 83	3-12	Date Apr	il 19, 1983	
	to repeal and Article 15, he of Chapter 25, Harford County for the contro County which i the use of lan for certain de types of const plains areas o provide for FI all zoning dis provide civil violation of t certain exempt development; a the control of County, Maryla:	ading, Floo heading, Z Code, as a l of certai s subject t d in flood finitions; ruction; to n plats and ood Plain O tricts in H and crimina his article ions for prind generall flood plain d.	d Hazard Controning, of the mended; to property of the mended; to property of flooding; to plains; to proto require certoring maps; verlay District arford County; l penalties for approved y to provide for approved of the mareas in Harman control of the mareas in the mar	col,  ovide  ford  o limit  ovide  ctain  ood  to  cts in  to  or the  for
Introduced, read first	time, ordered	posted and	public hearing	g scheduled
on:	May 17, 198	33		
at:	6:00 P.M	•		
By Order:	Angle To	as lande	. Secre	tary
•	PUBLIC HEA	ARING		
Havin	g been posted a	and notice of	of time and p	lace
of hearing and title of			_	
Charter, a public hearing				C/16
and concluded onMay				****
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BILL NO. 89 - 23 AS AMENDED

Section 1. Be It Enacted By The County Council of Harford County, Maryland, that Article 15, heading, Flood Hazard Control, of Chapter 25, heading, Zoning, of the Harford County Code, as amended, be, and it is hereby repealed and re-enacted with amendments, all to read as follows:

Chapter 25. Zoning.

Article 15. Flood Hazard Control.

Section 25-102. Legislative Findings.

Whereas, certain areas of Harford County are subject to periodic inundation which results in loss of life and property, health and safety, disruption of commerce and governmental services and extraordinary public expenditures for flood protection and relief; and

Whereas, flood losses and associated losses are created by structures inappropriately located, inadequately elevated or otherwise unprotected and vulnerable to floods or erosion or by development which increases flood or erosion damage to other lands or development; and

Whereas, the biological values of flood plains, particularly tidal and nontidal wetlands, can be adversely affected by flood plain development; and

Whereas, Harford County has the responsibility under the Flood Control and Watershed Management Act, Section 8-9A01, et. seq., Natural Resources Article of the Annotated Code of Maryland, as amended, to control flood plain development to protect persons and property from danger and destruction and to preserve the biological values and the environmental quality of the watersheds or portions thereof under its jurisdiction.

It is therefore declared by the Harford County Council that this act is to protect human life and health; minimize public and

construction practices in order to prevent or minimize flood damage in the future; protect individuals from buying lands and structures which are unsuited for intended purposes because of the flood hazards; protect water supply, sanitary sewage disposal, and natural drainage; reduce financial burdens imposed on the community, its governmental units, and its residents by preventing the unwise design and construction of development in areas subject to flooding; provide for public awareness of the flooding potential and provide for the biological and environmental quality of the watersheds or portions thereof located in the County. This act provides a unified comprehensive approach to flood plain management which addresses the requirements of the federal and state programs concerned with flood plain management; namely, the National Flood Insurance Program and the President's Executive Order 11988 of May 27, 1977, on flood plain management; the State Waterway Construction Program, the U. S. Army Corps of Engineers Section 10 and Section 404 permit programs; and the State's Coastal Zone Management Program. This act also establishes a County program which is consistent with federal and state regulatory programs concerned with the management of flood plain resources and activities; in particular, the U.S. Army Corps of Engineers, Section 10 and 404 Permit Programs, and the state's watershed permit and wetlands permit programs. Section 25-103. Definitions.

The following words have the meaning indicated unless the context clearly requires a different meaning, or a different definition is adopted for a particular section. Certain technical words are defined in this Chapter, Section 25-2.4.

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- (1) Channel. A natural or artificial watercourse of perceptible extent, with a definite bed and banks to confine and conduct continuously or periodically flowing water. Channel flow is that water which is flowing within the limits of the defined channel.
- (2) Fill. The placing, storing, or dumping of any material, including, but not limited to, earth, clay, sand, concrete, rubble or waste of any kind, upon the surface of the ground which results in increasing the natural ground surface elevation.
- (3) Flood. A temporary inundation of normally dry land areas.
- (4) Flood Plain/Flood Plain Overlay District. The channel and a contiguous area of a stream, river, or other water body which has been or may reasonably expect to be flooded by flood waters with an average frequency of occurrence on the order of once every one hundred (100) years. Flood Plain/Flood Plain Overlay District as used in this article includes areas designated on flood maps as the Detailed Flood Plain District, the Coastal High Hazard District, and the Approximated Flood Plain District.
- (5) Floodway. The channel of a river or other water course and the adjacent land areas that must be reserved in order to discharge the base flood without cumulatively increasing the water surface elevation more than a designated height.
- (6) Flood Profile. A graph or longitudinal profile showing the relationship of the water-surface elevation of a flood event to location along a stream or river.
- (7) Floodproofing. Any combination of structural and nonstructural additions, changes or adjustments or properties and structures which reduce or eliminate flood damage to lands, water and sanitary facilities, structures and contents of buildings.

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- (8) Freeboard. A factor of safety expressed in feet above a design flood level for flood protective or flood control works. Freeboard compensates for unknown factors that can contribute to flood heights greater than the height calculated for a selected size flood and flooding conditions such as wave action, bridge opening and flood plain obstructions, and the hydrological effects of urbanization of the watershed.
- (9) Hydraulic Conveyance. A measure of the carrying capacity of the channel or section.
- (10) Manmade Obstruction. Any dam, wall, wharf, embankment, levee, dike, pile, abutment, projection, excavation, channel rectification, bridge, conduit, culvert, building, wire, fence, rock, gravel, refuse, fill, structure or matter in, along, across or projecting into any channel, watercourse or regulatory flood hazard area which may impede, retard or change the direction of the flow of water, either in itself or by catching or collecting debris carried by such water, or that is placed where the flow of water might carry the same downstream to the damage of life or property.
- (11) Natural Obstruction. Natural obstruction shall mean any rock, tree, gravel or analogous natural matter that is an obstruction and has been located within the flood plain by a nonhuman cause.
- (12) One Hundred (100) Year Flood. A flood that has one (1) chance in one hundred (100) or a one percent (1%) chance of being equalled or exceeded in any given year.
- (13) Substantial Improvement. Any repair, reconstruction, or improvement of a structure, the cost of which equals or exceeds fifty percent of the market value of the structure either, (a) before the improvement or repair is started, or (b) if the structure has been damaged and is being restored before the damage occurred.

 For the purposes of this definition "substantial improvement" is considered to occur when the first alteration of any wall, ceiling, floor, or other structural part of the building commences, whether or not that alteration affects the external dimensions of the structure. The term does not, however, include any project for improvement of a structure to comply with existing state or local health, sanitary, or safety code specifications which are solely necessary to assure safe living conditions.

(14) Waiver means a grant of relief by the Zoning Administrator from certain terms and conditions established by this article.

Section 25-104. Establishment of Flood Plain Districts.

Harford County hereby establishes Flood Plain Overlay Districts.

The data supporting the delineation of the districts shall be the Federal Flood Insurance Study for Harford County, Maryland, as documented in the September 2, 1982, Federal Emergency Management Agency Insurance Study, as amended. All districts shall be deemed as Special Overlay Districts on any existing and hereinafter established districts within application of the Harford County Zoning Maps.

- (a) There shall be three (3) Flood Plain Overlay Districts in Harford County and they shall be as follows:
- (1) The Detailed Flood Plain District shall be that portion of land areas in Harford County that are susceptible to being inundated by water from the One Hundred (100) Year Flood. The Detailed Flood Plain District includes those areas of the One Hundred (100) Year Flood Plain where base flood elevations are determined. It includes districts A07-AH7 Al through A30, as shown on the Flood Insurance Rate Map.
- $\hbox{(2)} \quad \hbox{The Coastal High Hazard District shall be those} \\ \\ \hbox{portions of land within Harford County that are subject to} \\$

 inundation by high velocity waters and wave action, all those districts designated V or  $\forall \exists$  Vl through V30.

- (3) The Approximated Flood Plain District designated zone A and-A99 on the maps, and it shall be based upon the Federal Flood Insurance Study or an engineering study approved by the Department of Public Works and the studies utilized for the designation shall be the one which is most accurate.
- (b) The official Harford County flood plain maps shall be the maps as prepared by Federal Emergency Management Agency dated March 2, 1983.
- (c) The delineation of the Flood Plain District may be revised, amended, and modified by the Zoning Administrator upon recommendation of the Director of the Department of Public Works only in compliance with the National Flood Insurance Program. These revisions, modifications, and amendments shall only be made when:
- (1) There are changes in the Flood Plain through natural or manmade causes;
- (2) Changes are indicated by detailed hydrologic and hydraulic studies;
- (3) All such changes to the delineation of the district shall be subject to the review and approval of the Federal Insurance Administrator.
- (d) Any person affected by a district boundary may file with the Zoning Administrator a notice of dispute. Within sixty (60) days of the written notice, which contains adequate information documenting the disputed district boundary, an interpretation shall be made by the Zoning Administrator upon the written recommendation of the Director of Public Works and a decision in writing shall be rendered. Such decision shall become final only after review and approval by the Federal Insurance Agency ADMINISTRATION.

Section 25-105. Development Regulations.

The following restrictions shall apply to all development, new construction and to substantial improvements to existing structures occurring in the Flood Plain Overlay District, unless waived in accordance with the provisions of this article.

- (a) In the Detailed Flood Plain District, the following regulations shall apply:
- (1) No structures or additions to structures shall be allowed within the Detailed Flood Plain, except as otherwise provided in this Code.
- (2) Any development approved shall be in conformance with the requirements of the permit programs of the State Water Resources and the U. S. Army Corps of Engineers as may be applicable.
- (3) Any development shall be consistent with any flood hazard and watershed management plans for the area in which the development is proposed to be located.
- (4) All development shall be undertaken in a manner which minimizes adverse impacts on aquatic or terrestrial habitat and their related flora and fauna.
- ment of any structure within the one hundred (100) year flood plain and below the level of the one hundred (100) year frequency flood event shall not be permitted, except as otherwise provided. Alterations, routine maintenance and repair shall be exceptions. In addition, modifications to existing structures for floodproofing purposes shall be an exception. These modifications shall include elevating the lowest floor, INCLUDING THE BASEMENT, of the structure to or above the level of one (1) foot above the elevation of the one hundred (100) year flood frequency event, or FOR NONRESIDENTIAL STRUCTURES completely dry or essentially dry

 type floodproofing specified by the U. S. Army Corps of Engineers, as well as anchoring to prevent flotation, collapse, or lateral movement.

- (6) Any waivers to the provisions of this article shall meet the requirements specified in Section 25-105 of this article and any development within a flood plain shall only be permitted by securing a waiver.
- (7) All grading, necessary provisions for drainage, erosion, and vegetative establishments and requirements for fill material, where allowed, shall be in accordance with the provisions of the Harford County sediment control laws.
- Plain District must be shown to have some public beneficial purpose and the amount thereof must not be greater than is necessary to achieve that purpose as demonstrated by a plan submitted by the developer showing the uses to which the filled land will be put, the final dimensions of the proposed fill or other materials, and the flood heights that will result upstream and downstream as a result of the fill.
- (9) All electrical, plumbing, and mechanical systems, and associated appurtenances, except for waterfront piers, boathouses (not for human occupancy), and covered slips shall be one or more feet above the level of the one hundred (100) year flood, unless installed so as to be permanently floodproofed. Electrical distribution panels shall be not less than three (3) feet above the level of the one hundred (100) year flood.
- (10) No permanent or bulk storage of materials that are hazardous, buoyant, flammable, explosive or in times of flooding could be injurious to human, animal, or plant life shall be permitted below one (1) foot above the level of the one hundred (100) year flood plain.

regulations shall apply:

Plain.

(1) The Department of Public Works shall obtain, review, and reasonably utilize any one hundred (100) year flood elevation data available from federal, state, developer, or other source in the enforcement of the law within the Approximated Flood

(b) In the Approximated Flood Plain, the following

- (2) The development regulations of Section 25-105(a) of this article shall be applied within the Approximated Flood Plain.
- (c) In the Coastal High Hazard District, the following regulations shall apply in addition to the regulations cited in Section 25-105(a).
- (1) Land below the level of the one hundred (100) year tidal flood shall not be developed unless the new construction or substantial improvement:
- $\hbox{(i)} \quad \hbox{is located landward of the reach of the} \\$   $\hbox{mean high tide;}$
- (ii) is elevated on adequately anchored piles or columns and securely anchored to such piles or columns so that the lowest portion of the structural members of the lowest floor is elevated to at least one (1) foot above the one hundred (100) year tidal flood level.
- (iii) has been certified by a registered professional engineer or architect that it is securely anchored to adequately anchored pilings or columns in order to withstand velocity waters and hurricane wave wash.
- (iv) has no basement and has the space below the lowest floor free of obstructions or is constructed with "breakaway walls" intended to collapse under stress without

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31 32 jeopardizing the structural support of the structure so that the impact on the structure by abnormally high tides or wind-driven water is minimized. Such temporarily enclosed space shall not be used for human habitation.

- (v) does not utilize fill for structural support of buildings or structures.
- (2) Existing uses and/or structures located on land below the level of the one hundred (100) year tidal flood shall not be substantially improved.
- (3) The placement of mobile homes, except within existing mobile home parks is strictly prohibited.
- (d) In the entire Flood Plain District, the design, placement, and construction of all public and private utilities and facilities shall meet the following requirements:
- (1) New or replacement water supply systems and/or sanitary sewage systems shall be designed to eliminate or minimize infiltration of flood waters and discharges from the systems into flood waters, to avoid impairment during flooding and minimize flood damage.
- (2) All gas, electrical and other facility and utility systems shall be located and constructed to eliminate or minimize potential for flood damage.
- (3) All new storm drainage facilities within and leading to or from the Flood Plain District shall be adequately designed and installed to eliminate or minimize potential for property damage resulting from the flood waters of the one hundred (100) year flood and to minimize adverse environmental impacts of their installation and use.
- (e) Piers, boathouses, and covered slips. Such structures, if not to be used for human habitation, shall not be

subject to the floodproofing requirements of this article. Section 25-106. Application Procedures.

No special permits shall be required by this article. An application for subdivision, building permit, grading permit, or other local development permit shall be considered an application for development under this article as they may apply to the property. No building or grading permit shall be issued until the applicant has complied with such provisions, and after necessary permits from the State of Maryland, Water Resources Administration, and all other applicable state and federal agencies have been obtained.

- (a) All applications for subdivision and new development upon land which includes areas within the Flood Plain Districts shall include a delineation of the one hundred (100) year flood elevation. All plans shall be certified by a Registered Professional Engineer OR REGISTERED PROFESSIONAL LAND SURVEYOR and shall be reviewed by the Department of Public Works to assure that:
- (1) All such proposals are consistent with the need to minimize flood damage.
- (2) All necessary permits and/or approvals have been received from the State of Maryland, Water Resources Administration and appropriate federal agencies.
- (3) Public and private utilities and facilities, including sewer and water, are located and constructed to minimize or eliminate flood damage.
- (4) Adequate drainage is provided to reduce exposure to flood hazard.
- (5) Adequate measures are to be provided to minimize the adverse environmental impacts of the proposed development.

- (b) The application for a building permit, grading permit or other development permits, as may be permitted on land which is included in a floodplain district, shall contain additional information including, but not limited to, the following:
- (1) Depending on the type of structure involved, the following additional information may be required in support of the application:
- (i) For structures to be elevated above the one hundred (100) year flood elevation, the plans shall show:
- (A) the size of the proposed structure(s and its relation to the lot where it is to be constructed;
- (B) the elevations of the proposed final grading, the lowest floor levels (including basements), the existing ground contours and the one hundred (100) year flood elevation and high velocity water and wave action elevation, as certified by a registered professional engineer, surveyor, architect, or landscape architects;
- (C) the method of elevating the proposed structure, including details of proposed fills, pile structures, retaining walls, foundations, and erosion protection measures;
- (D) the methods used to protect utilities, including sewer, water, telephone, electric, gas, etc., from flooding below the one hundred (100) year flood elevation at the building site.
- (E) the hydraulic computations which show the impact upstream and downstream that the development will have on the flood plain.
- (F) The design of all structures, walls, protective measures will withstand the hydrostatic, hydrodynamic, boyant, impact, and forces resulting from the flood depths velocities, pressures, and other factors associated with the one hundred (100) year flood.

(ii) For nonresidential structure to be floodproofed below the one hundred (100) year flood elevation, the plans shall show:

(A) details of all floodproofing measures prepared by a registered professional engineer or architect and showing the size of the proposed structure and its relation to the lot where it is to be constructed.

(B) the elevations of the proposed final grading, lowest floors (including basements) and floodproofing limits, and the existing ground and one hundred (100) year flood elevation as certified by a registered professional engineer, surveyor, architect, or landscape architect.

(C) a certificate prepared by a registered professional engineer or architect who prepared the plans in (A) above, that the structure in question, together with attendant utilities and sanitary facilities, is designed so that:

a. below the one hundred (100) year flood elevation, the structure is watertight with walls substantially impermeable to the passage of water;

b. the structure will withstand the hydrostatic, hydrodynamic, buoyant, impact and other forces resulting from the flood depths, velocities, pressures, and other factors associated with the one hundred (100) year flood.

- (2) If a waiver is being applied for under the provisions of this article, certification that appropriate measures will be undertaken to floodproof floors and walls below the one hundred (100) year flood elevation is necessary.
- (c) When the proposed subdivision, permit, or other development includes the relocation or alteration of a water-course, evidence shall be presented as part of the permit

 application that all adjacent governmental units have been notified of the proposed alteration or relocation by certified mail.

Copies of these notifications shall then be forwarded to the Federal Emergency Management Agency, Federal Insurance Administration. The project engineer shall certify to the County, in writing, that the flood carrying capacity within the altered or relocated portion of the watercourse will not be affected.

Section 25-107. Waivers.

- (a) Any waiver granted for property subject to this law shall be in accordance with this section. THE GRANTING OF A WAIVER MAY AFFECT THE FLOOD INSURANCE RATES FOR THE PROPERTY

  COVERED BY THE WAIVER. Waivers to the provisions contained herein may be granted by the Zoning Administrator for the following conditions:
- (1) New construction of or substantial improvements to nonresidential structures which will be floodproofed; or
- (2) Other new construction and substantial improvements to be erected on a lot of one-half (1/2) acre or less in size contiguous to and surrounded by lots with existing structures constructed below the base flood level;
- (3) The granting of waivers is limited to a lot size less than one-half (1/2) acre. Exceptions to this limitation may be permitted. However, as the lot size increases beyond one-half (1/2) acre, the technical justification required for issuing a waiver increases.
- (b) Requests for waivers of the provisions contained herein shall be submitted in writing to the Zoning Administrator and shall be accompanied by a justification, engineering and analysis of the impact on the flood plain.

- (c) The issuance of waivers shall be subject to the following conditions:
  - (1) a showing of good and sufficient cause;
- (2) for new construction or substantial improvements to nonresidential structures, a determination that failure to grant the waiver would result in exceptional hardship to the applicant;
- (3) a determination that the granting of a waiver will not result in increased flood heights, additional threats to public safety, extraordinary public expense, create public nuisances, cause fraud on or victimization of the public or conflict with existing laws;
- (4) the stipulation that all residential structures will have the lowest floor elevated to the greatest extent possible with respect to the one hundred (100) year flood elevation;
- (5)--a-waiver-shall-not-be-granted-within-the-flood
  plain-if-any-increase-in-flood-levels-during-the-one-hundred-(100)
  year-flood-discharge-would-result-
- (6) (5) A waiver shall not be granted for construction DEVELOPMENT within the floodway.
- (7) (6) The Zoning Administrator may impose other reasonable conditions necessary for the protection of the health, safety, and welfare of the public.
- (d) Waivers shall only be granted upon a determination that the waivers are the minimum necessary, considering the flood hazard, to afford relief.
- (e) A record of all waiver actions, including justifications for their issuance, shall be maintained by the Zoning Administrator and all such information shall be included in the annual report submitted to the Federal Insurance Administrator.

- (f) Waivers may be issued for the reconstruction, rehabilitation or restoration of structures listed in the National Register of Historic Places, or a State Inventory of Historic Places, without regard to the procedures set forth herein.

  Section 25-108. Penalties and Remedies.
- (a) Criminal penalty: Any person violating any provision of this subtitle shall be guilty of a misdemeanor, and upon conviction thereof shall be fined not more than one thousand dollars (\$1,000.00) or imprisoned not more than six (6) months, or both, or both fined and imprisoned, in the discretion of the court. Each day a violation shall continue to exist shall constitute a separate offense.
- (b) Other remedies: The County may institute injunctive or other appropriate action or proceedings at law or equity for the enforcement of this article. Any court of competent jurisdiction may issue restraining orders, temporary or permanent injunctions, or other appropriate forms of remedy or relief to restrain or correct violations of this section.
- (c) The imposition of a fine or penalty for any violation of a noncompliance with this law shall not excuse the violation or noncompliance or permit it to continue, and all such persons shall be required to correct or remedy such violations and noncompliance within a reasonable time.
- (d) Any structure constructed, enlarged, altered, or relocated, not in compliance with this law may be declared by the Director of the Department of Inspections, Licenses and Permits to be an unsafe structure and abatable as such.

  Section 25-109. Liability.
- (a) County liability. This law does not imply that land outside the areas of special flood hazard or uses permitted

within such areas will be free from flooding or flood damages. Larger floods can and will occur. Flood heights may be increased by man-made or natural causes. The grant of a permit or approval is not a representation, guarantee, or warranty of any kind and shall create no liability upon the County, its officials, or employees.

Section 25-110. Existing Approved Development Plans/Plats.

- (a) Any development in Harford County which has received final approval and substantial construction has begun shall only be required to meet those flood plain standards in existence at the time the development received final approval from Harford County.
- (b) Substantial construction for the purposes of this section shall mean the installation of public utilities or the completion of at least twenty percent (20%) of the units approved for the development.

Section 25-111. Regulations.

The Zoning Administrator shall establish rules and regulations not inconsistent with this act and in conformance with Section 807 of the Charter in order to facilitate the application of this law in Harford County.

Section 2. And Be It Further Enacted, that this Act is hereby declared to be an Emergency Act, necessary for the protection of Harford County citizens against flood hazards, and this Act shall become effective on the date it becomes law.

EFFECTIVE: May 19, 1983

83-23 AS AMENDED

## BY THE COUNCIL

or the council
Read the third time.
Passed LSD 83-15 (May 17, 1983) (with amendments)
Failed of Passage
By order
angele Machenski, Secretary
Sealed with the County Seal and presented to the County Executive
for his approval this 18th day of May , 19 8
at 3:00 o'clock p.M.
Angles Marlaushi, Secretary
BY THE EXECUTIVE
County/executive Date 5/19/83

BY THE COUNCIL

This Bill (No. 83-23 (as amended), having been approved by the Executive and returned to the Council, becomes law on May 19, 1983.

Jagle Maskoush , Secretary

EFFECTIVE DATE: May 19, 1983

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